

# BA Calculator Manual.

App Version: V1.02

## Objective

This app is intended as a training tool for firefighters operating as BA entry control officers. It takes care of some of the calculations to ease workload on the individual to allow them to focus on other tasks relating to the Entry Control Board (ECB)

This app will function as a webpage or can be installed onto android or Apple devices to work without internet connection.

## Disclaimer

**This application was developed for personal use and as a training aid for colleagues. It is intended for development and educational purposes only. The developer assumes no responsibility for the accuracy of the calculations or its suitability for use at live incidents. This app is not a substitute for formal training or official service equipment and may not reflect the most current operational policies. Use at your own risk.**

## Installation

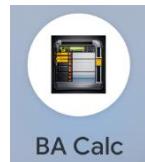
Click the link on your device:

<https://paulmak1000-lang.github.io/BACalc/>

This will open the web page viewer for the app. To install it locally follow the below instructions:

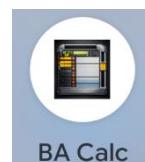
For iPhone (Safari)

1. Open Safari and go to <https://paulmak1000-lang.github.io/BACalc/>
2. Tap the Share button at the bottom center (the square with an arrow pointing up).
3. Scroll down the menu and select Add to Home Screen.
4. Confirm the name (e.g., "BA Calc") and tap Add in the top right.
5. The app will now live on your home screen with the following icon:



For Android (Chrome)

1. Open Chrome and go to <https://paulmak1000-lang.github.io/BACalc/>
2. Tap the three vertical dots (⋮) in the top right corner.
3. Look for Install app or Add to Home screen.
4. Android will give 2 options, one to create a shortcut to the webpage and the other to install app – **Installation of app is recommended** to maintain functionality when out of phone signal.
5. A pop-up will appear; tap Install
6. You will find the "BA Calc" in your app drawer with the following icon:



## OPERATION:

On launch the app will display as follows:

### ENTRY CONTROL TIME:

This time should match the time on the entry control board.

On startup the App will use the phones time for ENTRY CONTROL TIME. **This might Differ from the clock on the Entry control board!**

If time differs from the ECB. Tap on the time and manually adjust time to sync with the ECB.

Note: If shutting down the app or closing down the phone screen for any length of time the App may not always account for the elapsed time when restarted. **Always check ENTRY CONTROL TIME** is correct when resuming using the App.

### NOW and LOCK Buttons

The NOW button resets the ENTRY CONTROL TIME to sync with the users device time.

With the LOCK button disabled the app will display “**CLOCK RUNNING**” and **the time will increment every minute**. Pressing LOCK will freeze the ENTRY CONTROL TIME on its current minute. This feature is useful if multiple wearers are passing through entry control at the same time.

BA Calculator			
ENTRY CONTROL TIME		CLOCK RUNNING	
14:00		NOW	
ENTRY ADJUSTMENTS			SHOW ELAPSED
BAR	TAP	DUR	TOW
300	180	38m	14:38
290	175	37m	14:37
280	170	35m	14:35
270	165	33m	14:33
260	160	32m	14:32
250	155	30m	14:30
240	150	28m	14:28
160	110	16m	14:16

### ENTRY ADJUSTMENTS

ENTRY ADJUSTMENTS is a useful feature if taking over an ECB from rapid deployment.

On startup this is minimised but can be expanded by clicking SHOW ELAPSED

If a wearer has placed a tally in the ECB but not recorded their time of entry the ECB telemetry many be used to identify the wearers Duration in minutes. By inputting this time to Entry Adjustments the App will take account for this in calculating the TOW

Note: When Entry adjustments are applied the app will show Adj. to the left of the TOW to remind the user to clear Entry adjustments for any incoming BA teams.

It is also possible to input negative numbers by including a minus symbol. This makes it possible to use the ENTRY ADJUSTMENT to account for the difference between user device time and ECB time.

BA Calculator			
ENTRY CONTROL TIME		CLOCK RUNNING	
14:00		NOW	
ENTRY ADJUSTMENTS			HIDE ELAPSED
MINUTES ALREADY ELAPSED			
10		CLEAR	
BAR	TAP	DUR	TOW
300	180	38m	14:28 (Adj.)
290	175	37m	14:27 (Adj.)
280	170	35m	14:25 (Adj.)

## User Aids

Below the BA Table is:

- A link to the User Manual
- An Aide Memoire showing CFRS typical ECB annotations with prompts on actions to be carried out.
- And finally a list of the Abbreviations used when annotating the ECB